

SEQUENCE LISTING

<110> Monsanto Company

<120> TRANSGENIC PLANTS CONTAINING ALTERED LEVELS OF STEROID COMPOUNDS

<130> MTC6783.1

<160> 33

<170> PatentIn version 3.0

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Val Met Met Lys Pro Ala Lys Ile Ala Leu Asp Gln Phe Ile Ala Ser
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| Leu | Thr | Gly | Gly | Gly | Met | Thr | Val | Ala | Leu | Ala | Asp | Ile | Val | Val | Leu | |
| | | 420 | | | | | | 425 | | | | | 430 | | | |
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| Ser | Lys | Tyr | Ile | Glu | Ser | Phe | Tyr | Thr | Leu | Arg | Lys | Pro | Val | Ala | Ser | |
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| | | | | 485 | | | | | 490 | | | | | 495 | | |
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Thr Val Phe Tyr Val Thr Asn Arg Gly Lys Lys Ala Thr Gln Leu Ala
          35           40           45
Asp Ala Val Val Glu Glu Arg Glu Asp Gly Ala Thr Asp Val Ile Ile
          50           55           60
Val Gly Ala Gly Val Gly Gly Ser Ala Leu Ala Tyr Ala Leu Ala Lys
65           70           75           80
Asp Gly Arg Arg Val His Val Ile Glu Arg Asp Leu Arg Glu Pro Glu
          85           90           95
Arg Ile Met Gly Glu Phe Met Gln Pro Gly Gly Arg Leu Met Leu Ser
          100          105          110
Lys Leu Gly Leu Glu Asp Cys Leu Glu Gly Ile Asp Ala Gln Lys Ala
          115          120          125
Thr Gly Met Thr Val Tyr Lys Asp Gly Lys Glu Ala Val Ala Ser Phe
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| Leu | Ser | Lys | Leu | Gly | Leu | Gln | Asp | Cys | Leu | Glu | Asp | Ile | Asp | Ala | Gln | |
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| | | 115 | | | | | 120 | | | | | 125 | | | | |
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| | | | 180 | | | | | 185 | | | | | 190 | | | |
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| Tyr | Gln | Ile | Ser | Ser | Thr | Asp | Val | Arg | Cys | Gly | Phe | Glu | Val | Leu | Pro | |
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| Asn | Thr | Ile | Val | Pro | Gln | Val | Pro | Pro | Lys | Leu | Arg | Lys | Ile | Phe | Leu | |
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| Lys | Gly | Ile | Asp | Glu | Gly | Ala | His | Ile | Lys | Val | Val | Pro | Ala | Lys | Arg | |
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| Met | Thr | Ser | Thr | Leu | Ser | Lys | Lys | Lys | Gly | Val | Ile | Val | Leu | Gly | Asp | |
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| Leu | Ser | Asp | Ile | Leu | Ile | Leu | Arg | Arg | Leu | Leu | Gln | Pro | Leu | Ser | Asn | |
| | | 355 | | | | | 360 | | | | | 365 | | | | |
| Leu | Gly | Asp | Ala | Asn | Lys | Val | Ser | Glu | Val | Ile | Asn | Ser | Phe | Tyr | Asp | |
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| | | | |
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| Leu Ala Asp Thr Val Ala Glu Asp Gln Lys Asp Gly Ala Ala Asp Val | 35 | 40 | 45 |
| Ile Ile Val Gly Ala Gly Val Gly Gly Ser Ala Leu Ala Tyr Ala Leu | 50 | 55 | 60 |
| Leu Ser Val Arg Leu Glu Glu Gly Thr Val Lys Ser Leu Leu Glu Glu | 65 | 70 | 75 |
| Lys Gly Val Val Lys Gly Val Thr Tyr Lys Asn Lys Glu Cys Glu Gln | 85 | 90 | 95 |
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| ccctccagtt | cttcaagcgt | ggcctccatt | tatcggatcc | ctaataccgt | tcataaaagg | 240 | |
| tccaatagtg | ctacttagag | aggaatatcc | taagcttggg | agtgttttca | cagtgaagct | 300 | |
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| cggagttgtg | tttgatgttg | actatcccgt | tcggatggag | cagttccgat | tcttctccag | 480 | |

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Cys His Leu Leu Arg Asn Phe Glu Leu Glu Leu Val Ser Pro Phe Pro
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| Glu | Arg | Leu | Ile | Ile | Leu | Thr | Ala | Ser | Arg | Cys | Leu | Leu | Gly | Arg | Glu | |
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| | | | 260 | | | | | 265 | | | | | 270 | | | |
| Thr | Thr | Glu | Ser | Glu | Val | Thr | Gly | Leu | Leu | Ile | Ala | Ala | Leu | Phe | Ala | |
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| Met | Arg | Tyr | Lys | Glu | Tyr | Phe | Ser | Ala | Ala | Leu | Asp | Glu | Gln | Lys | Asn | |
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| Leu | Ile | Ala | Lys | His | Gly | Asp | Lys | Ile | Asp | His | Asp | Ile | Leu | Ser | Glu | |
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| Met | Asp | Val | Leu | Tyr | Arg | Cys | Ile | Lys | Glu | Ala | Leu | Arg | Leu | His | Pro | |
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| Pro | Leu | Ile | Met | Leu | Met | Arg | Ala | Ser | His | Ser | Asp | Phe | Ser | Val | Thr | |
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| Ala | Arg | Asp | Gly | Lys | Thr | Tyr | Asp | Ile | Pro | Lys | Gly | His | Ile | Val | Ala | |
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| Ala | Ala | Gly | Ala | Phe | Ser | Tyr | Ile | Ala | Phe | Gly | Gly | Gly | Arg | His | Gly | |
| | | | 420 | | | | | 425 | | | | | 430 | | | |
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| | | | | | | | | | | | | | | | | |
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| Phe | Ala | Lys | Ile | Ile | Gly | Ser | Arg | Lys | Arg | Ser | Gly | Lys | Thr | Glu | Asn | |
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370 375 380

Asp Leu His Ile Ser Val Thr Met Pro Ser Ile Glu Val Gly Thr Val
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Gly Gly Gly Thr Gln Leu Ala Ser Gln Ser Ala Cys Leu Asn Leu Leu
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Gly Val Lys Gly Ala Asn Lys Glu Ser Pro Gly Ser Asn Ser Arg Leu
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Leu Ala Ala Ile Val Ala Gly Ser Val Leu Ala Gly Glu Leu Ser Leu
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| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Asn | Tyr | Leu | Ile | Asp | Glu | Asp | His | Arg | Leu | Val | Thr | Cys | Pro | Pro | Ala |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Asn | Ile | Ser | Thr | Lys | Thr | Thr | Ile | Ile | Ala | Ala | Pro | Thr | Lys | Leu | Pro |
| | | | 35 | | | | 40 | | | | | 45 | | | |
| Thr | Ser | Glu | Pro | Leu | Ile | Ala | Pro | Leu | Val | Ser | Glu | Glu | Asp | Glu | Met |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Ile | Val | Asn | Ser | Val | Val | Asp | Gly | Lys | Ile | Pro | Ser | Tyr | Ser | Leu | Glu |
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| Ser | Lys | Leu | Gly | Asp | Cys | Lys | Arg | Ala | Ala | Ala | Ile | Arg | Arg | Glu | Ala |
| | | | 85 | | | | | 90 | | | | | | 95 | |
| Leu | Gln | Arg | Met | Thr | Arg | Arg | Ser | Leu | Glu | Gly | Leu | Pro | Val | Glu | Gly |
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Ser Val Leu Leu Lys Asp Gly Met Thr Arg Ala Pro Val Val Arg Phe
180 185 190

Ala Ser Ala Thr Arg Ala Ala Glu Leu Lys Phe Phe Leu Glu Asp Pro
195 200 205

Asp Asn Phe Asp Thr Leu Ala Val Val Phe Asn Lys Ser Ser Arg Phe
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Ile Arg Phe Ser Cys Ser Thr Gly Asp Ala Met Gly Met Asn Met Val
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Ser Lys Gly Val Gln Asn Val Leu Glu Phe Leu Gln Ser Asp Phe Ser
260 265 270

Asp Met Asp Val Ile Gly Ile Ser Gly Asn Phe Cys Ser Asp Lys Lys
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Pro Ala Ala Val Asn Trp Ile Glu Gly Arg Gly Lys Ser Val Val Cys
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Glu Ala Ile Ile Lys Glu Glu Val Val Lys Lys Val Leu Lys Thr Asn
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Val Ala Ser Leu Val Glu Leu Asn Met Leu Lys Asn Leu Ala Gly Ser
325 330 335

Ala Val Ala Gly Ala Leu Gly Gly Phe Asn Ala His Ala Gly Asn Ile
340 345 350

Val Ser Ala Ile Phe Ile Ala Thr Gly Gln Asp Pro Ala Gln Asn Val
355 360 365

Glu Ser Ser His Cys Ile Thr Met Met Glu Ala Val Asn Asp Gly Lys
370 375 380

Asp Leu His Ile Ser Val Thr Met Pro Ser Ile Glu Val Gly Thr Val
385 390 395 400

Gly Gly Gly Thr Gln Leu Ala Ser Gln Ser Ala Cys Leu Asn Leu Leu
405 410 415

Gly Val Lys Gly Ala Asn Lys Glu Ser Pro Gly Ser Asn Ser Arg Leu
420 425 430

Leu Ala Ala Ile Val Ala Gly Ser Val Leu Ala Gly Glu Leu Ser Leu
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Met Ser Ala Ile Ala Ala Gly Gln Leu Val Lys Ser His Met Lys Tyr
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Asn Arg Ser Ala Lys Asp Met Ser Lys Ala Ala Ser
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